

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 464.1006 CON4

SERIAL NO.:

09/690,040

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 1641

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PTD	AA	4	7	1	7	6	5	5	01/05/88	Fulwyler	435	7	10/15/84
	AB	5	5	7	3	9	0	9	11/12/96	Singer et al.	435	6	05/20/94
	AC	5	5	8	5	0	6	9	12/17/96	Zanzucchi et al.	422	100	11/10/94
	AD	5	5	9	3	8	3	8	01/14/97	Zanzucchi et al.	435	6	05/31/95
	AE	5	7	2	3	2	1	8	03/03/98	Haugland et al.	428	402	06/07/95
	AF	5	7	4	4	3	0	5	04/28/98	Fodor et al.	435	6	06/06/95
	AG	5	8	0	7	7	5	5	09/15/98	Ekins	436	518	05/23/95
	AH	5	8	3	7	5	5	1	11/17/98	Ekins	436	518	12/23/94
	AI	5	8	7	4	2	1	9	02/23/99	Rava et al.	435	6	04/09/96
	AJ	5	9	8	9	8	3	5	11/23/99	Dunlay et al.	435	7.2	02/27/97
PTD	AK	6	0	2	3	5	4	0	02/08/00	Walt et al.	385	12	03/14/97

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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PTD	AL	9	5	1	2	8	0	8	05/11/95	PCT	G01N	21/00		X
	AM	9	6	0	7	9	1	7	03/14/96	PCT	G01N	35/00		X
	AN	9	7	4	0	3	8	3	10/30/97	PCT	G01N	33/543		X
	AO	9	8	0	6	0	0	7	02/12/98	PCT	G03F	7/00		X
PTD	AP	9	8	5	3	3	0	0	11/26/98	PCT	G01N	21/00		X

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PTD	AR	Micheletto et al., <i>langmuir</i> , vol. 11, 3333-3336 (1995)
PTD	AS	Nagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)
	AT	

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PTD	AA	3	9	9	8	5	2	5	12/21/76	Giglia	350	160	08/21/75
	AB	4	0	7	5	0	1	3	02/21/78	Ward et al.	96	1.5	09/13/76
	AC	4	4	5	6	5	1	3	06/26/84	Kawai et al.	204	180	08/25/82
	AD	4	5	7	5	4	0	7	03/11/86	Diller	204	67	10/24/84
	AE	4	5	9	1	5	5	0	05/27/86	Hafeman et al.	435	4	04/05/84
	AF	5	4	4	4	3	3	0	08/22/95	Leventis et al.	313	506	02/18/93
	AG	5	5	8	7	1	2	8	12/24/96	Wilding et al.	422	50	11/14/94
	AH	5	4	9	8	3	9	2	03/12/96	Wilding et al.	422	68.1	09/19/94
PTD	AI	5	8	5	5	7	5	3	01/05/99	Trau et al.	204	484	11/26/96
	AJ	6	0	3	3	5	4	7	03/07/00	Trau et al.	204	622	01/04/99
	AK												

## FOREIGN PATENT DOCUMENTS

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													YES	NO
	AL	9	6	0	4	5	4	7	02/15/96	PCT	G01N	27/00		X
	AM													
	AN													
	AO													
	AP													

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PTD	AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 386.6: 57-59 (1997)
	AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336
PTD	AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262 : 558 - 560 (1993)

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jensen

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LIST OF PRIOR ART CITED BY APPLICANT  (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael			
				FILING DATE: October 17, 2000		GROUP: 1641	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	BG						
	BH						
	BI						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PTD	BJ	Trau et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272 : 706-709 (1996)					
	BK	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267 : 476-483 (1995)					
	BL	Schena et al. "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270 : 467-470 (1995)					
	BM	Haab et al. "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18) : 3253-3256 (1995)					
	BN	Richetti, et al., <i>J. Physique Lettr.</i> , vol. 45 : L-1137 to L-1143 (1984)					
PVD	BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2 <sup>nd</sup> Edition) (Wiley Interscience 1981)					
	BP						
	BQ						
	BR						
EXAMINER  <i>Jensen</i>				DATE CONSIDERED 9/7/02			
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(REV. 7-80)

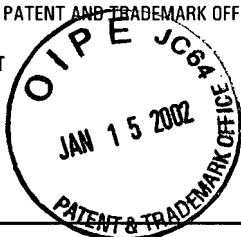
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PTD	AA	4 4 9 9 0 5 2	2/12/85	Fulwylar	422	52	8/30/82
	AB	4 6 4 7 5 4 4	3/3/87	Nicoli et al.	436	518	8/25/85
	AC	4 8 2 2 7 4 6	4/18/89	Walt	436	528	8/25/86
	AD	4 9 9 4 3 7 3	2/19/91	Stavrianopoulos et al.	435	6	12/20/89
	AE	5 0 0 2 8 6 7	3/26/91	Macevicz	435	6	10/24/88
	AF	5 0 2 8 5 4 5	7/2/91	Soini	436	501	6/9/88
	AG	5 1 0 5 3 0 5	4/14/92	Betzig	359	368	1/10/91
	AH	5 1 1 4 8 6 4	5/19/92	Walt	436	528	9/19/89
	AI	5 1 3 2 2 4 2	7/21/92	Cheung	436	501	11/13/89
	AJ	5 1 3 2 0 9 7	7/21/92	Van Deusen et al.	422	82.09	9/4/90
PTD	AK	5 1 4 3 8 5 3	9/1/92	Walt	436	501	2/2/89

FOREIGN PATENT DOCUMENTS

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PTD	✓	AL	0 2 6 9 7 6 4	6/8/88	EP	C12Q	1/68	X
	✓	AM	0 4 7 8 3 1 9	4/1/92	EP	C12Q	1/68	X
	✗	AN	0 7 2 3 1 4 6	7/24/96	EP	G01N	21/64	X
	✗	AO	8 9 1 1 1 0 1	11/16/89	PCT	G01N	33/546	X
PTD	✓	AP	9 3 0 2 3 6 0	2/4/93	PCT	G01N	33/536	X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PTD	AQ	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)
PTD	AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).
PTD	AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).

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*[Signature]*

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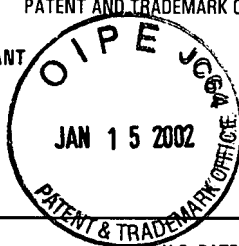
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PTD	BA	5 1 9 4 3 0 0	3/16/93	Cheung	427	213.31	11/8/89
	BB	5 2 4 4 8 1 3	9/14/93	Walt et al.	436	172	4/26/92
	BC	5 2 4 4 6 3 6	9/14/93	Walt et al.	422	82.07	1/25/91
	BD	5 2 5 0 2 6 4	10/5/93	Walt et al.	422	82.07	12/21/92
	BE	5 2 5 2 4 9 4	10/12/93	Walt	436	528	3/30/92
	BF	5 2 5 4 4 7 7	10/19/93	Walt	436	172	9/19/91
	BG	5 2 9 8 7 4 1	3/29/94	Walt et al.	250	227.23	1/13/93
	BH	5 3 0 6 6 1 8	4/26/94	Prober et al.	435	6	1/16/92
	BI	5 3 2 0 8 1 4	6/14/94	Walt et al.	422	82.07	11/25/92
	BJ	5 3 6 2 6 5 3	11/8/94	Carr et al.	436	165	5/6/92
PTD	BK	5 4 0 5 7 8 4	4/11/95	Van Hoegaerden	436	523	2/25/93

## FOREIGN PATENT DOCUMENTS

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PTA	BL	9 3 0 6 1 2 1	4/1/93	PCT	C07H	21/00	X
PTM	BM	9 3 2 4 5 1 7	12/9/93	PCT	C07K		X
PTM	BN	9 7 1 4 0 2 8	4/17/97	PCT	G01N	15/10	X
	BO						
	BP						

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PTD	BO	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).
PTD	BR	Campion, et al. "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis. Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).
PTD	BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," SPIE, vol. 2388 : 245-256 (1995).

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JAN 15 2002

PATENT &amp; TRADEMARK OFFICE

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PTD	CA	5 4 8 0 7 2 3	1/2/96	Klainer et al.	428	441	5/17/94
	CB	5 8 1 4 5 2 4	9/29/98	Walt et al.	436	518	12/14/95
	CC	5 4 9 6 9 9 7	3/5/96	Pope	250	227.21	1/3/94
	CD	5 5 1 2 4 9 0	4/30/96	Walt et al.	436	171	8/11/94
	CE	5 5 6 5 3 2 4	10/15/96	Still et al.	435	6	4/13/94
	CF	5 5 6 7 6 2 7	10/22/96	Lehnen	436	518	1/15/93
	CG	5 6 3 3 7 2 4	5/27/97	King et al.	356	445	8/29/95
	CH	5 6 3 3 9 7 2	5/27/97	Walt et al.	385	116	11/29/95
	CI	5 6 5 0 4 8 9	7/22/97	Lam et al.	530	334	6/19/91
	CJ	5 6 5 2 0 5 9	7/29/97	Margel	428	403	1/25/95
PTD	CK	5 6 7 4 6 9 8	10/7/97	Zarling et al.	435	7.92	3/30/95

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	CL							
	CM							
	CN							
	CO							
	CP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PTD	CQ	Grazia et al., "In-vivo biomedical monitoring by Fiber-Optic System," Journal of Lightwave Technology, 13, 1396-1406 (1995).
	CR	Bangs, "Immunological Applications of Microspheres," The Latex Course, Bangs Laboratories (April 1996)
PTD	CS	"Fluorescent Microspheres (Tech. Note #19)," Bangs Laboratories (1997)

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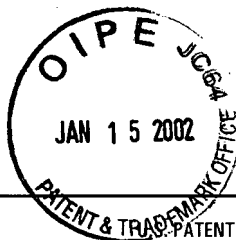
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PJO	DA	5 6 9 0 8 9 4	11/25/97	Pinkel et al.	422	68.1	9/23/95
	DB	5 7 0 0 8 9 7	12/23/97	Klainer et al.	528	15	9/30/95
	DC	5 7 7 9 9 7 6	7/14/98	Leland et al.	422	52	9/5/95
	DD	5 9 3 9 0 2 1	8/17/99	Hansen et al.	422	55	1/23/97
	DE	5 9 6 1 9 2 3	10/5/99	Nova et al.	422	68.1	9/30/96
	DF	5 9 6 5 4 5 2	10/12/99	Kovacs	436	149	7/9/96
	DG	6 0 4 8 6 9 0	4/11/00	Heller et al.	435	6	5/14/97
	DH	6 0 9 0 5 4 5	7/18/00	Wohlstadter et al.	435	6	3/6/97
	DI	6 0 9 0 9 1 2	7/18/00	Lebl et al.	530	300	11/23/98
	DJ	6 2 0 0 7 3 7	3/13/01	Walt et al.	430	320	8/24/95
PTD	DK						

## FOREIGN PATENT DOCUMENTS

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	DL							
	DM							
	DN							
	DO							
	DP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PJO	DQ	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-736 (1997)
	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMetrix system," Clinical Chemistry, vol. 43:9, pp. 1749-1756 (1997).
PTD	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).

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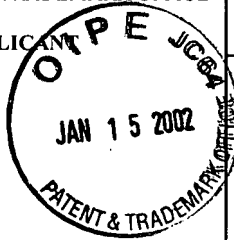
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## FOREIGN PATENT DOCUMENTS

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							YES	NO
	EL							
	EM							
	EN							
	EO							
	EP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PTD	EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
PTD	ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
	ES	

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DOCKET NO.: 0973/1b889-US1

SERIAL NO: To Be Assigned  
(U.S. Nat'l. Phase of Int'l.

APPLICANT: Michael SEUL

Appln. No. PCT/US97/08159

Filed 24 April, 1997)

FILING DATE: Concurrently Herewith

**U.S. PATENT DOCUMENTS**

<u>*EXAMINER</u> <u>INITIALS</u>	<u>DOCUMENT</u> <u>NUMBER</u>	<u>DATE</u>	<u>NAME</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>FILING DATE</u>
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**OTHER REFERENCES****(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)**

\*EXAMINER

INITIALS

PFD

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1. S.R. Yeh, M. Seul, B.I. Shraimans, "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow", Nature:Vol. 386.6 March 1997 pps. 57-59.
2. M. Giersig & P. Mulvaney, "Formation of Ordered Two-Dimensional Gold Colloid Lattices by Electrophoretic Deposition", J.Phys.Chem 1993, 97, 6334-6336.
3. M. Seul & C.A. Murray, "Scale Transformation of Magnetic "Bubble" Arrays: Coupling of Topological Disorder and Polydispersity", Science Vo. 262 22 Oct. 1993, pps. 558-560.
4. M. Trau, D.A. Saville, I.A. Aksay, "Field-Induced Layering of Colloidal Crystals", Science Vol. 272, May 1 1996, pps. 706-709
5. M. Seul & D. Andelman, "Domain Shapes and Patterns: The Phenomenology of Modulated Phases", Science, Vol. 267, 27 Jan. 1995, pps. 476-483.
6. The International Preliminary Examination Report dated April 27, 1998, received in the corresponding international application.

EXAMINER:

DATE CONSIDERED:

9/7/02

**LIST OF REFERENCES CITED BY APPLICANT**  
(Use Several Sheets if Necessary)DOCKET NO.: 0973/1B889  
APPLICANT: Michael SeulSERIAL NO: 09/171,550  
FILING DATE: October 26, 1998**U.S. PATENT DOCUMENTS**

<u>*EXAMINER INITIALS</u>	<u>DOCUMENT NUMBER</u>	<u>DATE</u>	<u>NAME</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>FILING DATE</u>
PTD	5,587,128	12/24/96	Wilding et al.	422	50	11/14/94
PTD	5,498,392	03/12/96	Wilding et al.	422	68.1	09/19/94

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PTD	WO 96/04547	02/15/96		G01N	27/00	

**OTHER REFERENCES****(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)****\*EXAMINER  
INITIALS**

PTD

Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," Mark Schena, Daniel Shalon, Ronald W. Davis, Patrick O. Brown, *Science*, Vol. 270, pp. 467-470, October 20, 1995.

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"Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," Brian B. Haab and Richard A. Mathies, *Analytical Chemistry*, Vol. 67, No. 18, pp. 3253-3260, September 15, 1995.

EXAMINER:

DATE CONSIDERED:

9/30/02

\*Examiner: Initials if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.